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precipitates the cellulose in the form of a regenerated cellulose filament.

[49 FR 13651, Apr. 5, 1984; 49 FR 18096, Apr. 27, 1984]

§ 60.602 Standard for volatile organic compounds.

On and after the date on which the initial performance test required to be conducted by § 60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause the discharge into the atmosphere from any affected facility that produces acrylic fibers, VOC emissions that exceed 10 kg/Mg (20 lb/ton) solvent feed to the spinning solution preparation system or precipitation bath. VOC emissions from affected facilities that produce both acrylic and nonacrylic fiber types shall not exceed 10 kg/Mg (20 lb/ton) solvent feed. VOC emissions from affected facilities that produce only nonacrylic fiber types shall not exceed 17 kg/Mg (34 lb/ton) solvent feed. Compliance with the emission limitations is determined on a 6-month rolling average basis as described in § 60.603.

[49 FR 22606, May 30, 1984, as amended at 65 FR 61768, Oct. 17, 2000]

§ 60.603 Performance test and compliance provisions.

(a) Section 60.8(f) does not apply to the performance test procedures required by this subpart.

(b) Each owner or operator of an affected facility shall determine compliance with the applicable standard in § 60.602(a) by determining and recording monthly the VOC emissions per unit mass solvent feed from each affected facility for the current and preceding 5 consecutive calendar months and using these values to calculate the 6-month average emissions. Each calculation is considered a performance test. The owner or operator of an affected facility shall use the following procedure to determine VOC emissions for each calendar month:

(1) Install, calibrate, maintain, and operate monitoring devices that continuously measure and permanently record for each calendar month the amount of makeup solvent and solvent feed. These values shall be used in calculating VOC emissions according to

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paragraph (b)(2) of this section. All monitoring devices, meters, and peripheral equipment shall be calibrated and any error recorded. Total compounded error of the flow measuring and recording devices shall not exceed 1 percent accuracy over the operating range. As an alternative to measuring solvent feed, the owner or operator may:

(i) Measure the amount of recovered solvent returned to the solvent feed storage tanks, and use the following equation to determine the amount of solvent feed:

Solvent Feed = Makeup Solvent + Recovered Solvent + Change in the Amount of Solvent Contained in the Solvent Feed Holding Tank.

(ii) Measure and record the amount of polymer introduced into the affected facility and the solvent-to-polymer ratio of the spinning solutions, and use the following equation to determine the amount of solvent feed:

$$\text{Solvent Feed} = \sum_{i=1}^n$$

where subscript "i" denotes each particular spinning solution used during the test period; values of "i" vary from one to the total number of spinning solutions, "n," used during the calendar month.

(2) VOC emissions shall be determined each calendar month by use of the following equations:

$$E = \frac{M_w}{S_w} - N - I \text{ and } M_w = M_v S_p D$$

$$S_w = \frac{S_v S_p D}{K}$$

$$I = \frac{I_E - I_S}{S_w}$$

where all values are for the calendar month only and where

E = VOC Emissions, in kg/Mg (lb/ton) solvent;

S_v = Measured or calculated volume of solvent feed, in liters (gallons);

S_w = Weight of solvent feed, in Mg (ton);

M_v = Measured volume of makeup solvent, in liters (gallons);

M_w = Weight of makeup, in kg (lb);

N = Allowance for nongaseous losses, 13 kg/Mg (26 lb/ton) solvent feed;

S_p = Fraction of measured volume that is actual solvent (excludes water);

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D = Density of the solvent, in kg/liter (lb/gal-
lon);

K = Conversion factor, 1,000 kg/Mg (2,000 lb/
ton);

I = Allowance for solvent inventory varia-
tion or changes in the amount of solvent
contained in the affected facility, in kg/Mg
(lb/ton) solvent feed (may be positive or
negative);

I_S = Amount of solvent contained in the af-
fected facility at the beginning of the test
period, as determined by the owner or op-
erator, in kg (lb);

I_E = Amount of solvent contained in the af-
fected facility at the close of the test pe-
riod, as determined by the owner or op-
erator, in kg (lb).

(3) N, as used in the equation in para-
graph (b)(2) of this section, equals 13
kg/Mg (26 lb/ton) solvent feed to the
spinning solution preparation system
and precipitation bath. This value shall
be used in all cases unless an owner or
operator demonstrates to the satisfac-
tion of the Administrator that greater
nongaseous losses occur at the affected
facility. In this case, the greater value
may be substituted in the equation.

[49 FR 13651, Apr. 5, 1984; 49 FR 18096, Apr. 27,
1984, as amended at 65 FR 61769, Oct. 17, 2000]

§ 60.604 Reporting requirements.

(a) The owner or operator of an af-
fected facility shall submit a written
report to the Administrator of the fol-
lowing:

(1) The results of the initial perform-
ance test; and

(2) The results of subsequent per-
formance tests that indicate that VOC
emissions exceed the standards in
§ 60.602. These reports shall be sub-
mitted quarterly at 3-month intervals
after the initial performance test. If no
exceedances occur during a particular
quarter, a report stating this shall be
submitted to the Administrator semi-
annually.

(b) Solvent-spun synthetic fiber pro-
ducing facilities exempted from these
standards in § 60.600(a) (those producing
less than 500 Mg (551 ton) annually)
shall report to the Administrator with-
in 30 days whenever extruded fiber for
the preceding 12 calendar months ex-
ceeds 500 Mg (551 ton).

(c) The requirements of this section
remain in force until and unless EPA,
in delegating enforcement authority to
a State under section 111(c) of the Act,

approves reporting requirements or an
alternate means of compliance surveil-
lance adopted by such State. In that
event, affected sources within the
State will be relieved of the obligation
to comply with this section, provided
that they comply with the require-
ments established by the State.

[49 FR 13651, Apr. 5, 1984, as amended at 55
FR 51384, Dec. 13, 1990; 59 FR 32341, June 23,
1994; 65 FR 61769, Oct. 17, 2000]

Subpart III—Standards of Perform- ance for Volatile Organic Compound (VOC) Emissions From the Synthetic Organic Chemical Manufacturing In- dustry (SOCMI) Air Oxidation Unit Processes

SOURCE: 55 FR 26922, June 29, 1990, unless
otherwise noted.

§ 60.610 Applicability and designation of affected facility.

(a) The provisions of this subpart
apply to each affected facility des-
ignated in paragraph (b) of this section
that produces any of the chemicals
listed in § 60.617 as a product, co-pro-
duct, by-product, or intermediate, ex-
cept as provided in paragraph (c) of
this section.

(b) The affected facility is any of the
following for which construction, modi-
fication, or reconstruction commenced
after October 21, 1983:

(1) Each air oxidation reactor not dis-
charging its vent stream into a recov-
ery system.

(2) Each combination of an air oxida-
tion reactor and the recovery system
into which its vent stream is dis-
charged.

(3) Each combination of two or more
air oxidation reactors and the common
recovery system into which their vent
streams are discharged.

(c) Each affected facility that has a
total resource effectiveness (TRE)
index value greater than 4.0 is exempt
from all provisions of this subpart ex-
cept for §§ 60.612, 60.614(f), 60.615(h), and
60.615(l).

(d) *Alternative means of compliance—*
(1) *Option to comply with part 65.* Owners
or operators of process vents that are
subject to this subpart may choose to